

Application No. 10/687,136
Reply to the Office action of August 17, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (withdrawn)
2. (withdrawn)
3. (withdrawn)
4. (original) A system for providing operation, diagnostic, procedure or maintenance training, comprising:
 - a mechanical mock-up of at least a part of a system on which the training is required, the mechanical mock-up having a plurality of probe points which are respectively connected to electronically readable memories that respectively store a unique identifier code;
 - a host computer comprising means for communicating with a system/machine simulation, and means for associating each unique identifier code with a corresponding probe event, passing a probe point event to the system/machine simulation, and determining a response of the system/machine simulation to the probe event; and
 - simulated diagnostic equipment having at least one probe that can be maneuvered to contact any one of the probe points, means for reading the unique identifier code when one of the probe points is contacted by the probe, means for communicating with the host computer in order to pass each unique identifier code to the host computer and to receive feedback from the host computer, and means for processing the feedback to determine a display value to be displayed.

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5. (original) The system as claimed in claim 1 wherein each of the electronically readable memories respectively comprise a microelectronic circuit that is activated to output the unique identifier code when the probe contacts a probe point to which the microelectronic circuit is connected.
6. (original) The system as claimed in claim 5 wherein the probe activates the microelectronic circuit when it contacts the probe point by supplying an electrical current through the connection to the microelectronic circuit.
7. (original) The system as claimed in claim 6 wherein the electronically readable memory comprises a touch memory button.
8. (original) The system as claimed in claim 1 wherein the simulated diagnostic tool comprises an electronic multimeter having two probes.
9. (original) The system as claimed in claim 8 wherein the simulated diagnostic tool comprises a simulated digital multimeter, with a mode selector input, and a communications processor for communicating with the host computer.
10. (original) The system as claimed in claim 9 wherein the host computer is adapted to use the mode selection input to determine a set of simulation parameters maintained by the simulation that are to be associated with the display value.
11. (original) The system as claimed in claim 10 further comprising an instructor station that may be used to control the simulation to simulate system faults.
12. (original) The system as claimed in claim 11 wherein the instructor station further permits an instructor to monitor a training exercise, guide a trainee through a training exercise, create a simulation program, and to select preprogrammed system faults.

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13. (original) The system as claimed in claim 12 further comprising an electronic memory in communications with the host computer for storing student responses to training exercises.
14. (original) The system as claimed in claim 12 wherein the host computer further comprises a look-up table for associating the unique identifier code with a probe point of the simulated probed equipment to identify a probe point event, and a procedure for communicating the probe point event to the simulation server.
15. (withdrawn)
16. (withdrawn)
17. (withdrawn)
18. (withdrawn)
19. (original) An article comprising:

a computer readable modulated electrical signal emitted from an electronically readable memory connected to a mechanical mock-up of a system or a machine upon electrical contact with a probe of a simulated diagnostic tool; and

a unique identifier code embedded in the signal for permitting a training system to determine a probe event that indicates electrical contact between the probe and a probe point on the mechanical mock-up.
20. (withdrawn)